

SECTION 210 – MICRO SURFACING

1. GENERAL

The work shall consist of the application of micro-surfacing material to an existing street surface in accordance with the latest version of Section 606 of the Kansas Department of Transportation Standard Specifications (KDOT) and as herein.

2. MATERIALS

A. Emulsified Asphalt. The emulsified asphalt shall be CSS-1HM and conform to the requirement of the latest version of Section 1203 of the Kansas Department of Transportation Standard Specifications.

B. Aggregate. The mineral aggregate shall conform to the requirement of the latest version of Section 1109 of the KDOT Standard Specifications.

C. Water. The water shall be potable and shall be free of harmful soluble salts.

3. TACK COAT

Concrete streets to be micro-surfaced shall receive a bituminous tack coat. Material shall be Type SS-1H anionic or CSS-1H cationic asphalt emulsion as specified in Section 1203 of the KDOT Standard Specifications. Material shall be sampled and tested by an approved testing laboratory at the expense of the Contractor, as specified in Section 1203. Acceptance will be based on certified test results. Equipment and construction requirements shall conform to Section 606 of the Standard Specifications. Rate of application as directed by the Engineer shall be between 0.08 and 0.12 gallons per square yard.

4. MAINTENANCE OF TRAFFIC

Closing of streets for this work shall be at the direction of the Engineer and coordinated to result in the least practicable delay and inconvenience to traffic. Unless otherwise directed, all roads shall have one lane of traffic open in each direction at all times. The lanes being sealed shall be closed and guarded until cured out and open to traffic. Sufficient flagmen, warning signs and barricades shall be provided by the Contractor to properly control traffic and to prevent traffic from traveling in the freshly applied materials. Barricades and barricading, signs and other warning devices will be in accordance with the Federal Highway Administration "Manual on Uniform Traffic Control Devices" provisions for "Traffic Controls for Street and Highway Construction and Maintenance Operations."

5. CURING

Adequate means shall be provided to protect the slurry seal from damage by traffic until the mixture has cured sufficiently so that it will not adhere to or be picked up by the tires of vehicles. The Contractor shall provide signs, barricades and flagmen necessary to control traffic around the area under construction. The Contractor shall repair any damage done by traffic to the micro surfacing at no expense to the City.

6. YIELDS

Rates of application shall be as designated in the Summary of Quantities or as directed by the Engineer. The Engineer shall approve the mix design and all micro-surfacing materials and methods prior to use. The following table shows typical rates and proportions to be used. At no time shall the minimum dry rate of mineral aggregate be less than 20 pounds per square yard (lbs./sq. yd.)

Aggregate for Micro-Surfacing	Leveling Course	20 lbs./sq. yd. min (dry weight)
	Surface Course	25 lbs./sq. yd. min (dry weight)
Emulsified Asphalt, CSS-1HM	6.5% to 8.5% by weight of aggregates (dry)	
Mineral Filler	1.5% to 2.5% by weight of aggregate (dry)	
Latex Based Modifier	As needed to provide the specified properties	
Water	As needed to provide proper consistency	

7. MEASUREMENT AND PAYMENT

Measurement shall be made based on tonnage of combined micro surfacing materials delivered and placed in accordance with specifications. Delivery tickets shall be required as documentation for payment. Payment for this work shall be made at the contract unit price per ton for micro surfacing at the locations as shown in the plans.